



# **Endoscopic diagnostic device for detecting cancer cells - filters examination light beam to provoke fluorescence of living tissue**

Patent Number: DE4133493  
 Publication date: 1992-04-16  
 Inventor(s): ADACHI RENSUKE (JP); UEDA HIROHISA (JP); SANO HIROSHI (JP)  
 Applicant(s): ASAHI OPTICAL CO LTD (JP)  
 Requested Patent: ☐ DE4133493  
 Application Number: DE19914133493 19911009  
 Priority Number(s): JP19900274921 19901012  
 IPC Classification: A61B1/04; A61B1/06; G01N21/64  
 EC Classification: A61B5/00P4, G01N21/64P  
 Equivalents: JP2862099B2, ☐ JP4150845

## **Abstract**

The diagnostic device uses a light source (30) coupled to the proximal end of an endoscope (11) for illuminating an area of tissue adjacent the distal end of the latter, with visual examination of the illuminated tissue. A wavelength filter (1) is inserted in the path of the light provided by the source for selecting the wavelength range which causes fluorescence of living tissue with a wavelength of between 500 and 600 nm.  
 A second wavelength filter (2) lies in the viewing light path for blocking all but the fluorescence light so that cancer cells appear as dark patches.  
**ADVANTAGE** - Early detection of cancer.

Data supplied from the esp@cenet database - I2